

## Safety Data Sheet

according to Regulation (EU) 2015/830 Issue date: 22/11/2022 Version: 5.0

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Name : CHLORINE FREE GLASS RENOVATOR

UFI : 3VC8-E005-000C-D85Q

Product code : CFGR
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

Use of the substance/mixture : Detergent. Designed to regenerate the "sparkle" to glasses which have been subjected to

repeated wash cycles.

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

BIO PRODUCTIONS LIMITED 72 VICTORIA ROAD, VICTORIA INDUSTRIAL ESTATE BURGESS HILL WEST SUSSEX RH15 9LH

BIO PRODUCTIONS EUROPE LIMITED 38 MAIN STREET SWORDS Co. DUBLIN IRELAND K67E0A2

TEL: 0044 (0) 1444 244 000

EMAIL: TECHNICAL@BIO-PRODUCTIONS.COM

WEB: WWW.BIO-PRODUCTIONS.COM

#### 1.4. Emergency telephone number

Emergency number : 0044 (0) 1444 244 000

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

#### SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1, Sub-Category 1A H314

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes severe skin burns and eye damage.

#### 2.2. Label elements

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Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS05

605 GH

Signal word (CLP) : Danger

Hazardous ingredients : sodium metasilicate pentahydrate

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P260 - Do not breathe dust.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a doctor.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

Labelling according to Directive 67/548/EEC or 1999/45/EC

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium carbonate	(CAS-No.) 497-19-8 (EC-No.) 207-838-8 (EC Index-No.) 011-005-00-2 (REACH-no) 01-2119485498-19	30 – 50	Eye Irrit. 2, H319
Sodium percarbonate	(CAS-No.) 15630-89-4 (EC-No.) 239-707-6 (REACH-no) 01-2119457268-30	10 – 30	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
sodium metasilicate pentahydrate	(CAS-No.) 10213-79-3 (EC-No.) 229-912-9 (REACH-no) 01-2119449811-37	5 – 10	Met. Corr. 1, H290 Skin Corr. 1, H314 STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

#### **SECTION 4: First aid measures**

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician

immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.

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Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of

: Toxic fumes may be released.

tire

#### 5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling

: Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures

: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Hand protection:

Protective gloves

## Eye protection:

Safety glasses

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#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Odour threshold





#### **Environmental exposure controls:**

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

: No data available

Physical state : Solid
Appearance : Powder.
Colour : white.
Odour : characteristic.

pH : ≈ 12

: No data available Relative evaporation rate (butylacetate=1) Melting point : No data available Freezing point : Not applicable : No data available Boiling point : Not applicable Flash point Auto-ignition temperature : Not applicable : No data available Decomposition temperature : Non flammable. Flammability Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available

Density : ≈ 0.89

Solubility : Soluble in water.

Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : Not applicable

Viscosity, dynamic : No data available

Explosive properties : Product is not explosive.

Oxidising properties : No data available

Explosive limits : Not applicable

#### 9.2. Other information

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Contact with acids liberates very toxic gas.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## 10.5. Incompatible materials

Acids.

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#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

sodium carbonate (497-19-8)	
LD50 oral	4090 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	2300 mg/m³

Sodium percarbonate (15630-89-4)	
LD50 oral	1034 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns.

pH: ≈ 12

Serious eye damage/irritation : Assumed to cause serious eye damage

pH: ≈ 12

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

CHLORINE FREE - GLASS RENOVATOR POWDER		
	Viscosity, kinematic	Not applicable

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

sodium carbonate (497-19-8)	
LC50 - Fish [1]	300 mg/l
EC50 - Other aquatic organisms [1]	265 mg/l
EC50 - Other aquatic organisms [2]	IC50 algea (72 h) mg/l
Sodium percarbonate (15630-89-4)	
LC50 - Fish [1]	> 70 mg/l
EC50 - Other aquatic organisms [1]	4.9 mg/l EC50 waterflea (48 h)

### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

sodium carbonate (497-19-8)	
Partition coefficient n-octanol/water (Log Pow)	-6.19

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number

 UN-No. (ADR)
 : 1479

 UN-No. (IMDG)
 : 1479

 UN-No. (IATA)
 : 1479

 UN-No. (ADN)
 : 1479

 UN-No. (RID)
 : 1479

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : OXIDIZING SOLID, N.O.S.
Proper Shipping Name (IMDG) : OXIDIZING SOLID, N.O.S.
Proper Shipping Name (IATA) : Oxidizing solid, n.o.s.
Proper Shipping Name (ADN) : OXIDIZING SOLID, N.O.S.
Proper Shipping Name (RID) : OXIDIZING SOLID, N.O.S.

Transport document description (ADR)

: UN 1479 OXIDIZING SOLID, N.O.S., 5.1, III, (E)

Transport document description (IMDG)

: UN 1479 OXIDIZING SOLID, N.O.S., 5.1, III

Transport document description (IATA)

: UN 1479 OXIDIZING SOLID, N.O.S., 5.1, III

Transport document description (ADN)

: UN 1479 OXIDIZING SOLID, N.O.S., 5.1, III

Transport document description (RID)

: UN 1479 OXIDIZING SOLID, N.O.S., 5.1, III

## 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 5.1
Danger labels (ADR) : 5.1



## IMDG

Transport hazard class(es) (IMDG) : 5.1
Danger labels (IMDG) : 5.1



#### IATA

Transport hazard class(es) (IATA) : 5.1
Danger labels (IATA) : 5.1



### ADN

Transport hazard class(es) (ADN) : 5.1
Danger labels (ADN) : 5.1



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RID

Transport hazard class(es) (RID) : 5.1 Danger labels (RID) : 5.1



14.4. Packing group

: 111 Packing group (ADR) Packing group (IMDG) : 111 : 111 Packing group (IATA) Packing group (ADN) : III Packing group (RID) : 111

Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

- Overland transport

Classification code (ADR) : 02 : 274 Special provisions (ADR) Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : B3 Mixed packing provisions (ADR) : MP2 Portable tank and bulk container instructions : T1

(ADR)

Portable tank and bulk container special

provisions (ADR)

: TP33

Tank code (ADR) : SGAN : TU3 Tank special provisions (ADR) Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Loading, : CV24

unloading and handling (ADR)

: 50

Hazard identification number (Kemler No.) Orange plates

50

1479

Tunnel restriction code (ADR) : E EAC code : 1Y

- Transport by sea

Special provisions (IMDG) : 223, 274, 900

Limited quantities (IMDG) : 5 kg Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P002, LP02 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B3 Tank instructions (IMDG) : T1 Tank special provisions (IMDG) : TP33

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: F-A EmS-No. (Fire) EmS-No. (Spillage) : S-Q Stowage category (IMDG) : B

Segregation (IMDG) : SG38, SG49, SG60, SG61

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y546 PCA limited quantity max net quantity (IATA) : 10kg PCA packing instructions (IATA) : 559 PCA max net quantity (IATA) : 25kg CAO packing instructions (IATA) : 563 CAO max net quantity (IATA) : 100kg Special provisions (IATA) : A3, A803 ERG code (IATA) : 5L

- Inland waterway transport

Classification code (ADN) : 02 Special provisions (ADN) : 274 Limited quantities (ADN) : 5 kg Excepted quantities (ADN) : E1 Equipment required (ADN) : PP : 0 Number of blue cones/lights (ADN)

- Rail transport

Classification code (RID) : 02 : 274 Special provisions (RID) Limited quantities (RID) : 5kg Excepted quantities (RID) : E1

: P002, IBC08, LP02, R001 Packing instructions (RID)

Special packing provisions (RID) : B3 Mixed packing provisions (RID) : MP2 Portable tank and bulk container instructions : T1 (RID)

Portable tank and bulk container special : TP33

provisions (RID)

Tank codes for RID tanks (RID) : SGAN Special provisions for RID tanks (RID) : TU3 Transport category (RID) : 3 Special provisions for carriage - Loading, : CW24 unloading and handling (RID)

Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 50

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

#### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. **National regulations**

No additional information available

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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:

Revision - See: \*.

#### Abbreviations and acronyms:

Abbieviations and actoriyins.		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
EC50	Median effective concentration	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
PBT	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	

#### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

## SDS EU (Reach Annex II) GREEN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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